

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

GOODWIN, J., et al.

Serial Number

09/627,566

Filed

July 28, 2000

For

Covered Stent and Method of Covering A Stent

Group Art Unit

3731

Examiner

BUI, VY Q

Paper Number

Docket Number

ATA-286RCE

AFFIDAVIT UNDER 37 CFR 1.131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Peter H. Gingras, being duly sworn, deposes and says:

- 1. I, along with Jonathan L. Goodwin and Gary A. Jordan, am the inventor of claims 1-4 and 6-9 of the pending application identified above, and of the subject matter described and claimed therein.
- 2. Prior to August 5, 1998, I had completed my invention as described and claimed in the subject application in the United States of America, as evidenced by the following:
 - a. Prior to August 5, 1998, and having earlier conceived the idea of creating a radially deployable stent having a covering of biocompatible material on an inner surface of the stent and additional covering of biocompatible material on an outer surface of the stent, wherein at least one of the inner and outer coverings has a predetermined thickness and has an average internodal distance (IND) of greater than 100 microns to reduce a deployment pressure necessary to expand the stent

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to less than 10 atmospheres, I expanded a coated stent (ID# RD808617) with a 7 mm balloon at 6-7 atm, as evidenced by Exhibit A. The stent (ID# RD808617) coating had an internodal distance measurement of 118 microns +/- 33 microns as shown in Exhibit B. The stent (ID# RD808617) experienced no tears as evidenced by Exhibit A.

- b. The above described actions involved use of a stent wherein one of the inner and outer coverings has a predetermined thickness and has an average internodal distance (IND) of greater than 100 microns having a deployment pressure necessary to expand the stent of less than 10 atmospheres.
- 3. Each of the dates deleted from Exhibits A and B is prior to August 5, 1998.

J. Dig 25 JUNE 2003

Peter H. Gingras

Sworn to and subscribed before me this	day of June, 2003.		
	(Notary Signed)		
	(Notary Printed Name)		

(Notary Seal)

2	Project No Book No	TITLE P-39	4 (Cinima)	ncsity)
Fron	a Page No			EXHIBIT A
	Stent Covering RD808617 0.128"/0.08 Compression Layer RD805504 0.1 Stent sleeve 0.166" / 0.128" Cuff sleeve 0.148" / 0.128" Mandrel 0.095" AD-1 4:1 - (water / AD1)	18" 13:1 18"/0.088" 6:1		
	 Wipe down the mandrels with alcohol Cut the covering and compression layer Plasma etch the covering (O₂ - 10 sec Place the plasma etched covering on the Slide the stent over the sutured end and With a Q-Tip lightly apply the AD1 to the stent Place the mandrel / stent in the Grieve of Remove the suture and expand the end cuff sleeve (0.148"/0.128") over the man measure 20mm from the stent and trim of Gently slide the sleeve/PTFE over the slide the stent to the opposite end of the of tweezers, then place cuff sleeve (0.14 it reaches the stent, measure 20mm from Gently slide the sleeve/PTFE over the sleeve it reaches the stent, measure 20mm from Gently slide the sleeve/PTFE over the sleeve it reaches the stent sleeves (0.156"/0.12 over the stent. Sinter 360°C - 8 min. (water quench). Remove the stent sleeves. Twist the stent to release it from the mar Remove the third layer (compression layer). 	50 watts - 0.150 Torr) e mandrel and tie off one electer the stent on the PT estent and 0.5cm of the PT estent and 0.5cm of the PT even (250°F - 20 min.) to d of the PTFE with a pair of odrel and under the PTFE is off the excess PTFE. tent to form the first cuff. e mandrel and expand this is 18"/0.128") over the mandre in the stent and trim off the tent and the first cuff. 150" pin gauge. Indrel and covered stent, to 8") over the compression in indrel.	FFE. FFE at both ends of the ry tweezers, then place the until it reaches the stent, end of the PTFE with a parel and under the PTFE un excess.	ıtil
	Stent 10 #1's RD80'			+ 6- · · · · · · · · · · · · · · · · · ·
	5HB-> Expanded with both at 6-7at Looks Good no			
2	HCaD - used for		•	
		4	n egester H	

			10 T age 1	
Witnessed & Understood by me,	Date	Invented by	Date	
		Recorded by	V → 1 ·	

COOS STEE COVERNO No. 17 97-2 EXHIBIT B "ARRAGO: February tast Oth was forward from Mreitz HAVE Morites 2428145 ERPOBOBOS 0.60 FAX HARDCOR 20808090328A95AG 0.50 RD 80 80 703 327985HA-0.44 TK- (2) #131 By Wang; MEASIELES RD 808617 118 I 33 60 harsterna RD 808618 RD 808619 143 + 51 161 ± 59 RD 808620 120 ± 38 THE RESULT WARE PAMED IN BY MONTER CHERKO. To Page No Witnessed & Understood by me, Date Invented by Date